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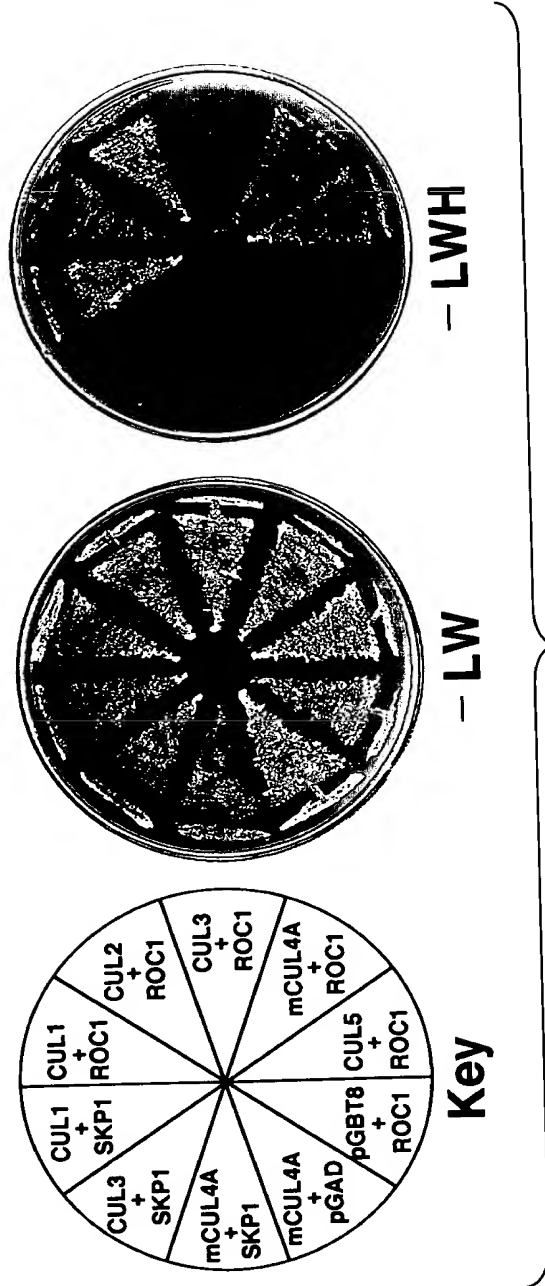


FIG.1A

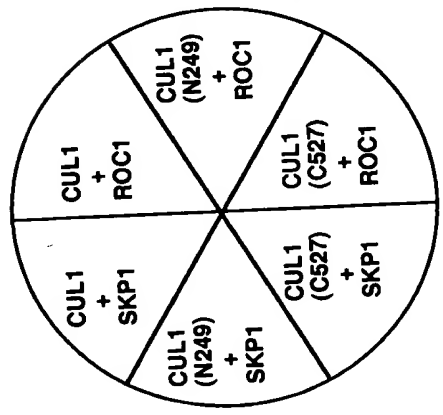
APPROVED	BY	DATE
SUSAN S.		



- LWH



- LW



Key

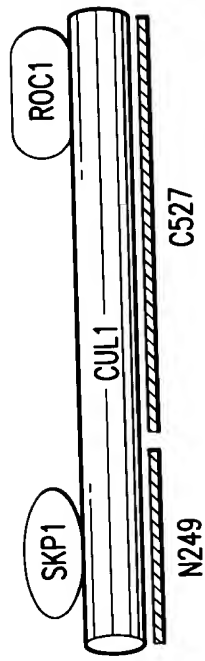


FIG.1B



## ROC1

ATGGCGGACCGATGGATGCGATACCCCGAGCGGCACCAACAGCGCGCGGGGCAAGAACCGCTTTGAAGTGAAAAAGTGGAAATGCAGTA 90  
M A A A M D V D T P S G T N S G A G K K R F E V K K W N A V 30  
GCCCTCTGGCCTGGGATATTCTGGTTGATAACTGTGCCATCTGCAGGAACCAACATTTATGGATCTTTGCATAGAATGTCAAGCTAACCCAG 180  
A L W A W D I V V D N C A I C R N H I M D L C I E C Q A N Q 60  
CGCTCCGCTACTCAGAAGTGTACTGTGCGCATGGGAGTCTGTAAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAACA 270  
A S A T S E E C T V A W G V C N H A F H F H C I S R W L K T 90  
CGACAGGTGTGTCCATTGGACACACAGAGTGGGAATTCCAAAGTATGGCCACTAG 327  
R Q V C P L D N R E W E F Q K Y G H \* 108

## FIG.2A

## ROC2

ATGTTCTCCCTCAAGAAGTGGAACCCGGTGGCCATGTGGAGCTGGGACGTGGAGTGCATACGTGCGCCATCTGCAGGGTCCAGGTGATG 90  
M F S L K K W N P V A M W S W D V E C D T C A I C R V Q V M 30  
GATGCTGTCTTAGATGTCAAGCTGAAAAACAACAAGAGGACTGTGTTGTGCTGTGGGAGAAATGTAATCATTCCTTCCACAACCTGCTGC 180  
D A C L R C Q A E N K Q E D C V V W G E C N H S F H N C C 60  
ATGTCCCTGTGGGTGAAACAGAACAAATCGTGCCTCTCTGCCAGCAGGACTGGGTGGTCCAAAGAAATCGGCAATGA 258  
M S L W V K Q N N R C P L C Q Q D W V V Q R I G K \* 85

## FIG.2B



ROC1-Hs	22	FEVKKWNAVALWAWDI	VVDNCAI	CRNHIMDL	IECQANOASATSEEC	TVAWGVCN	HAF	HFHC	ISRWL	----	KTRQVC	PLDNREWEF	108					
ROC1-Dm	22	FEVKKWNAVALWAWDI	VVDNCAI	CRNHIMDL	IECQANOASATSEEC	TVAWGVCN	HAF	HFHC	ISRWL	----	KTRQVC	PLDNREYDF	108					
ROC1-Ce	24	FEVKKWSAVALWAWDI	QVDNCAI	CRNHIMDL	IECQANOAGL	KDECTV	AWGNCN	HAF	HFHC	ISRWL	----	KTRQVC	PLDNREWEF	110				
ROC1-At	32	FEIKKWSAVALWAWDI	VVDNCAI	CRNHIMDL	IECQANOASATSEEC	TVAWGVCN	HAF	HFHC	ISRWL	----	KTRQVC	PLDNSEWEF	118					
ROC1-Sp	21	FEIKKWSAVALWAWDI	VVDNCAI	CRNHIMDL	IECQANTDSAAA	QECTV	AWGTCN	HAF	HFHC	ISRWL	----	NTRNVC	PLDNREWEF	113				
ROC1-Sc	35	FEIKKWTAVAFW	SWDIAVDNCAI	CRNHIMEPC	IECQPKAMTDT	NECVA	AWGVCN	HAF	HLHC	INKWI	----	KTRDAC	PLDNQPWQL	121				
ROC2-Hs	2	FSLKKWNAVAMW	SWDVECDTCAI	CRVQVMDA	CLRCQAEN	----	KQEDC	VVVW	GECN	HSF	HNCC	MSLW	----	KONNRC	PLCQDWWV	85		
ROC2-Ce	30	FVLKKWNAVALWAW	DVECDTCAI	CRVHLMEE	CLRCQSEP	----	SAE	-C	YVVW	GDCN	HSF	HHCC	MTQW	I	----	RQNNRC	PLCQKDWV	112
APC11-Hs	3	VKIKCWNGVATW	LWVANDENCGI	CRMAFNG	CCPDCKVPG	-----	DDC	PLVW	GQC	SHCF	HMHC	ILKWL	HAQV	QQHC	PMCRQEWKF	84		
APC11-Dm	3	VTIKSWTGVATW	RWIANDENCGI	CRMSFEST	CPECALPG	-----	DDC	PLVW	GVC	SHCF	HMHC	IVKWL	NLOPL	NKQC	PMCRQSWKF	85		
APC11-Ce	51	ITVKKLHVCGEW	KWL[3]	DTCGICRME	FESACNMCKPFG	-----	DDC	PLVL	GIC	RHAF	HRHC	IDKW	I[5]	QPR	AQC	PLCRQDWTI	135	
APC11-Sc	3	VKINEVHSVFAM	SW[21]	DVCGICR	ASYNGTC	PSC	KPFG	-----	DQC	PLVIGL	CHHNF	HDHC	IYRW	LDT	TTSKGLC	PMCRQTFQL	165	

FIG.2C

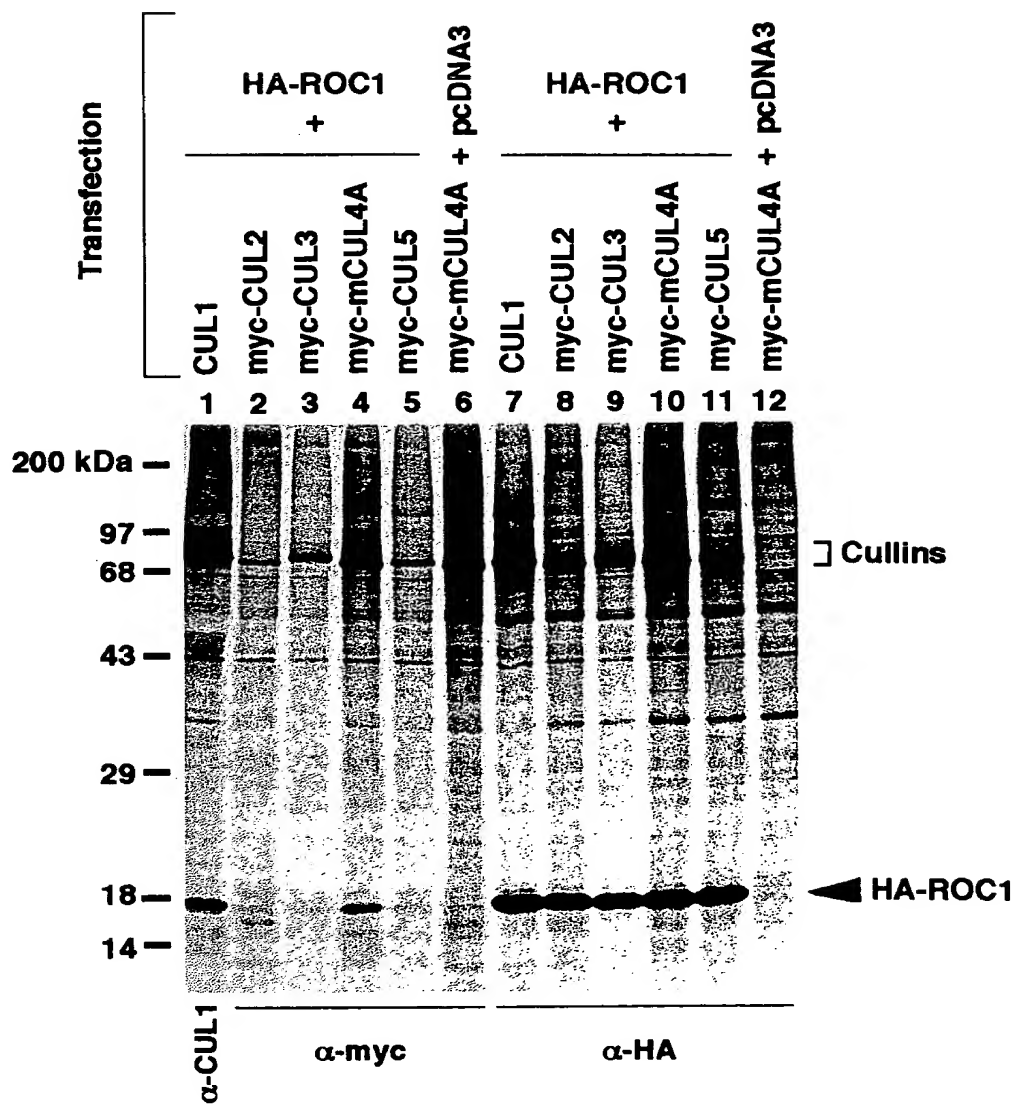


FIG.3A



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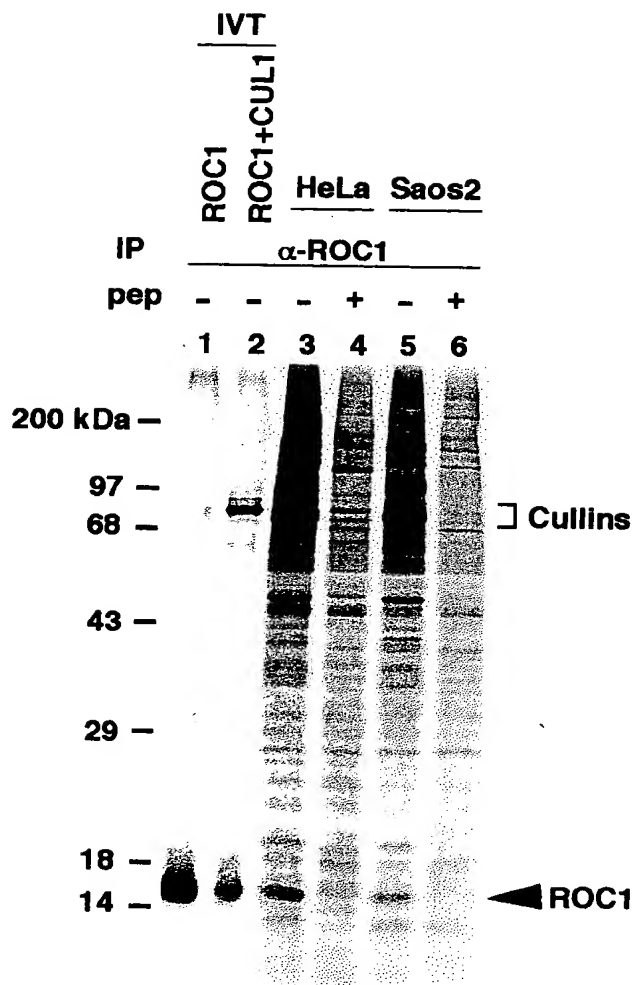


FIG.3B

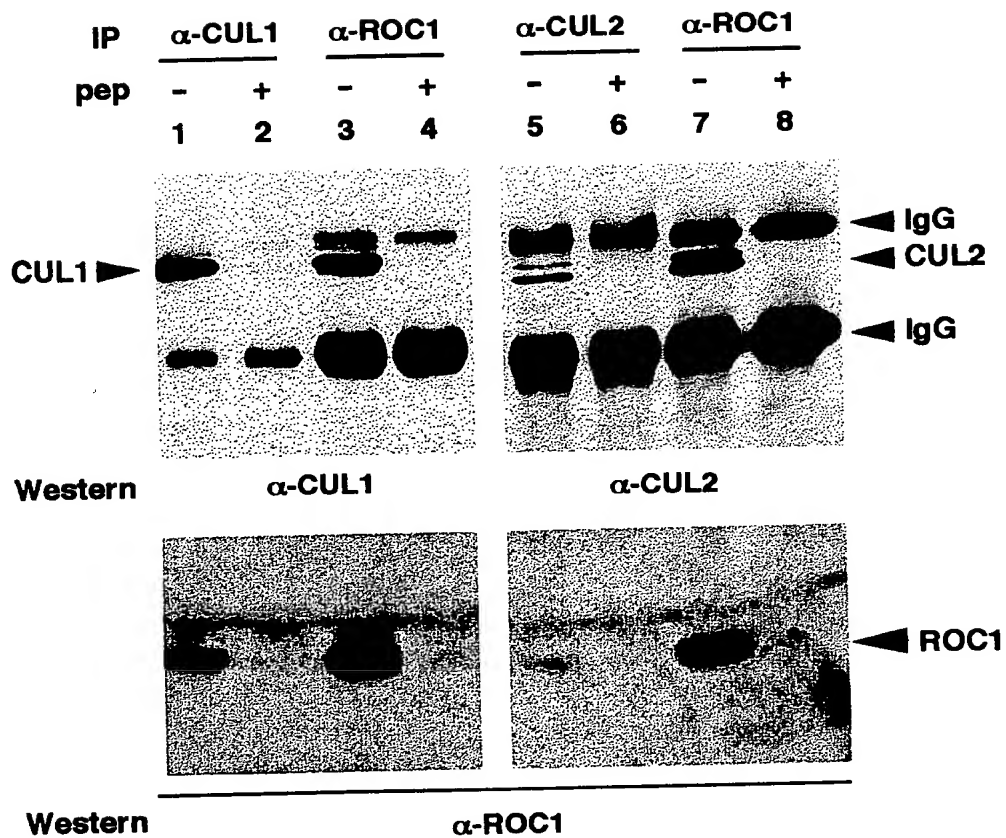
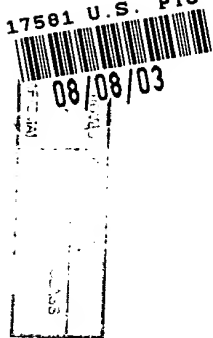


FIG.3C

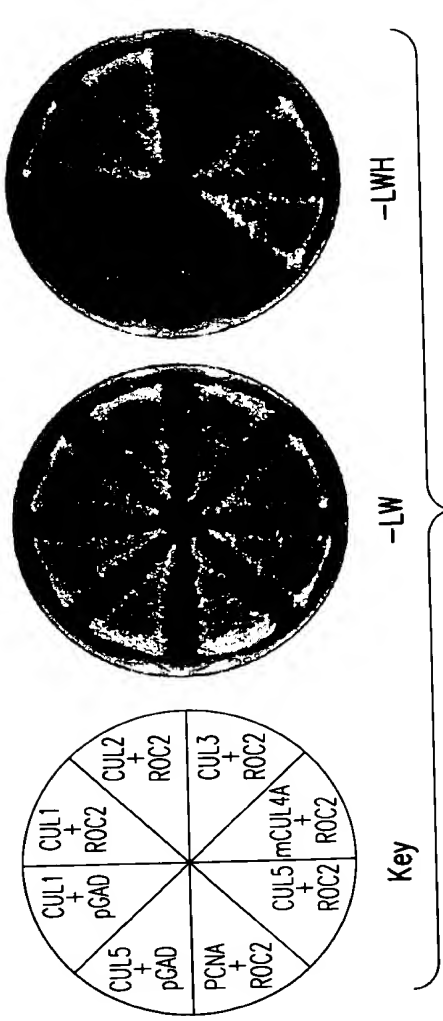


FIG. 4A

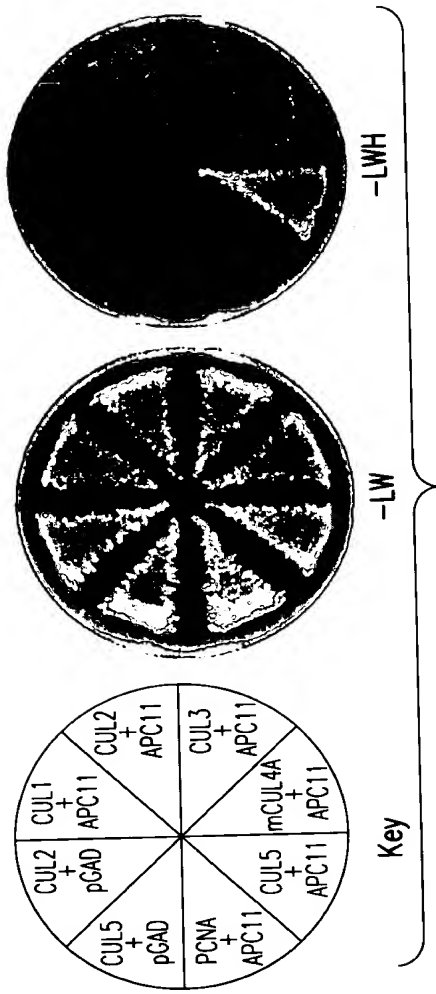


FIG. 4B





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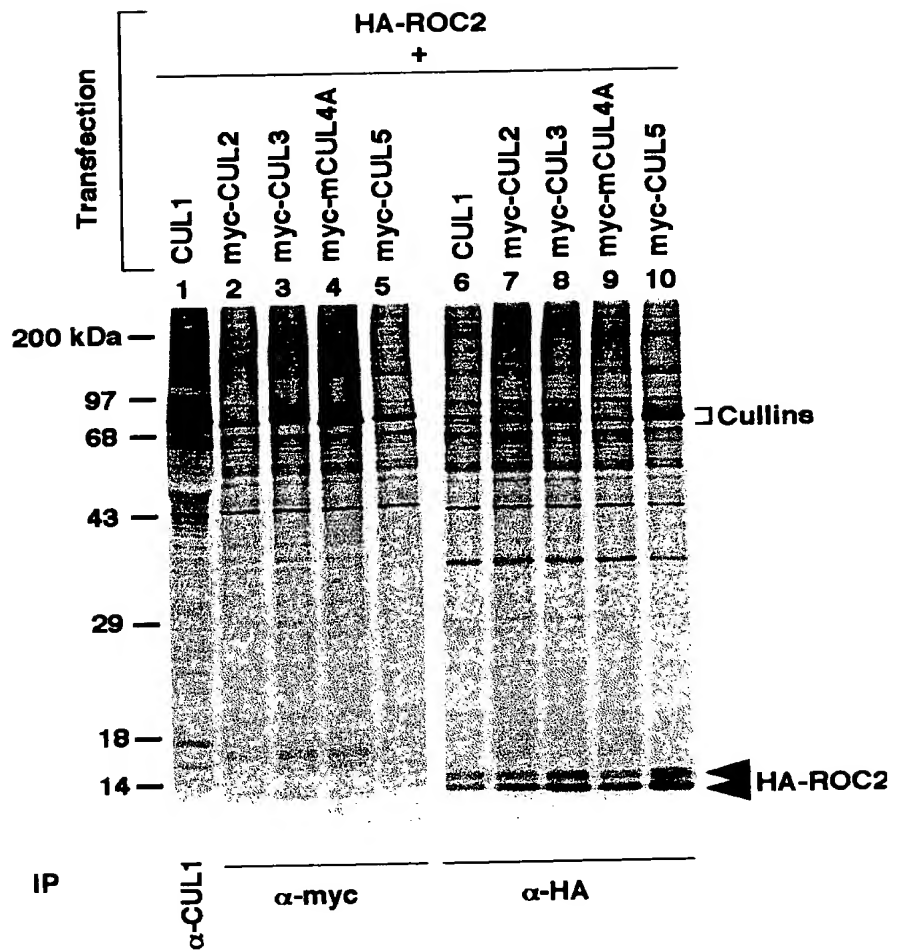


FIG.4C



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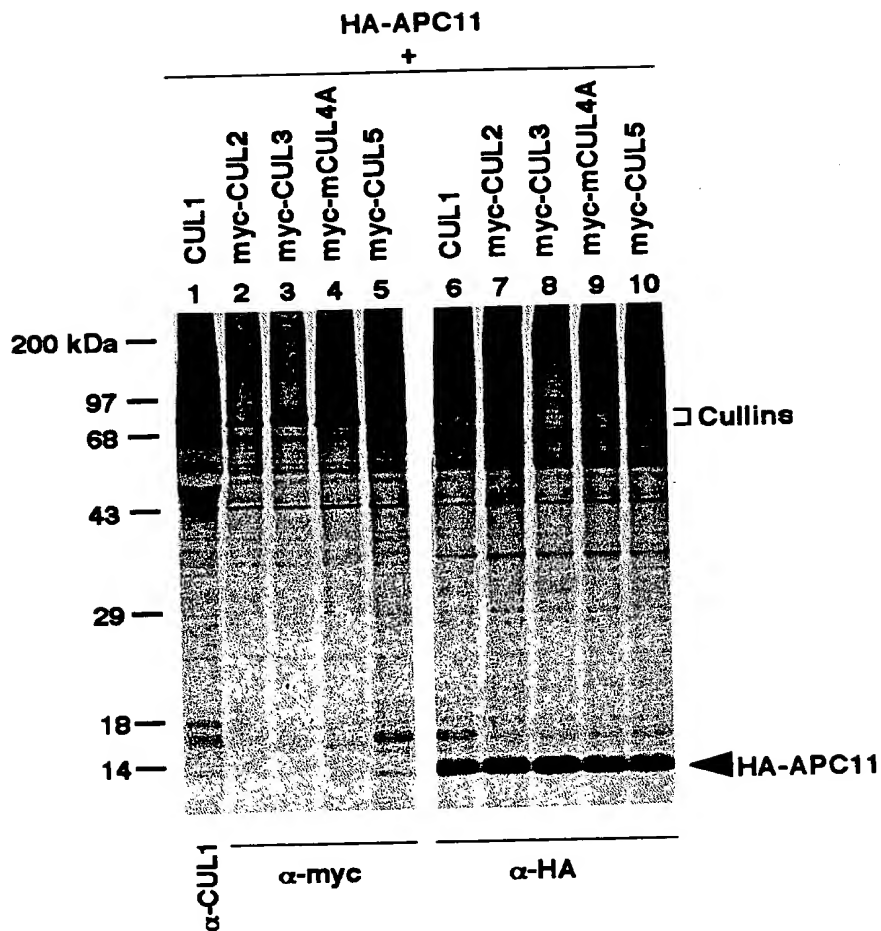


FIG.4D



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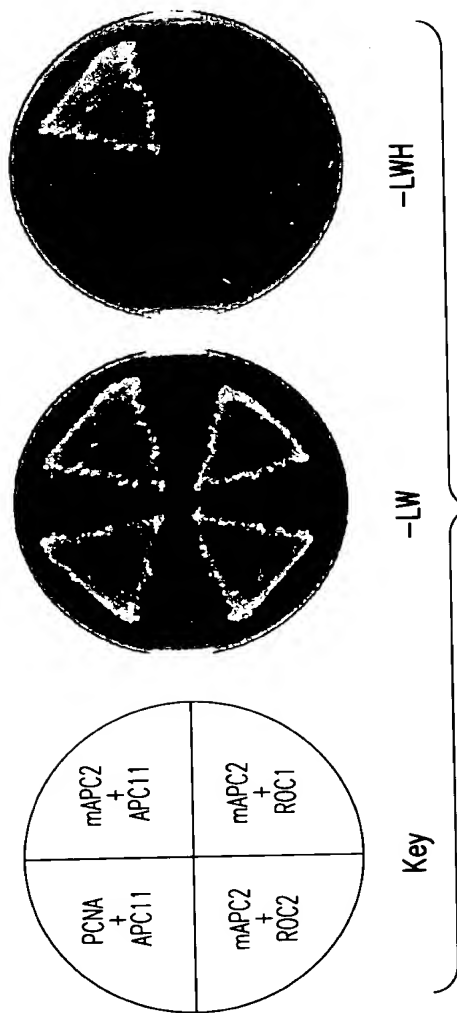


FIG.4E

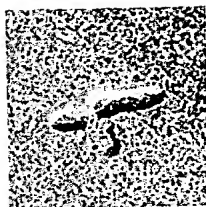
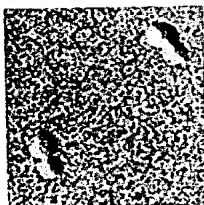


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Hoechst



Phase



Galactose

Glucose

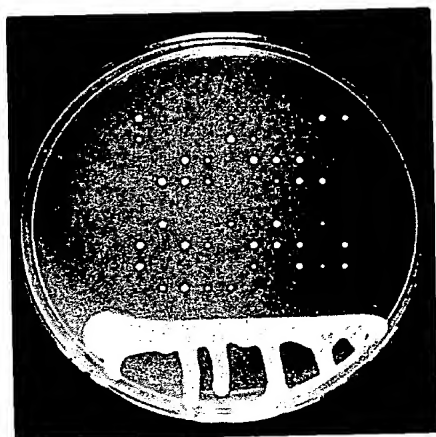


FIG.5B

FIG.5A

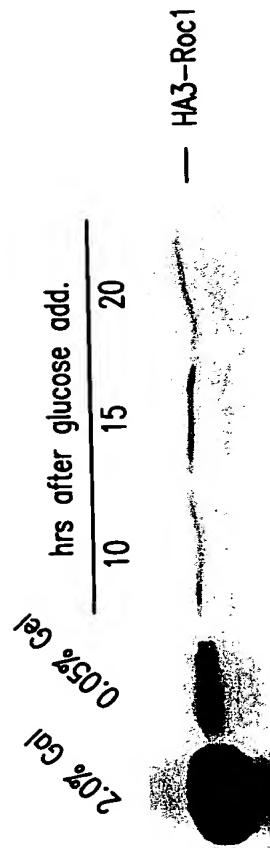
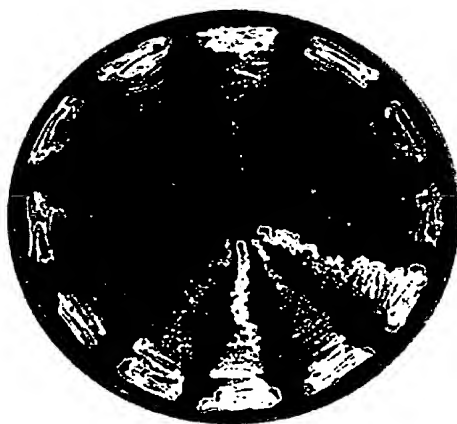


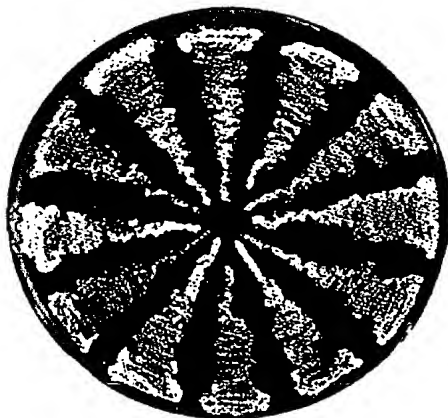
FIG.5C



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-LWH



-LW

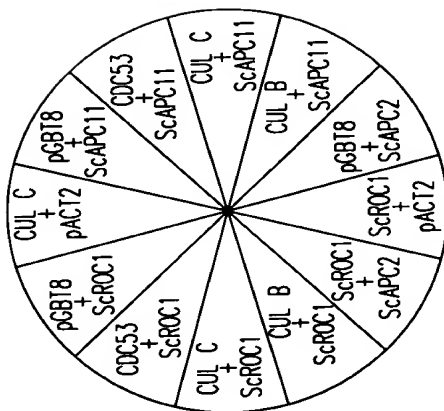


FIG.5D



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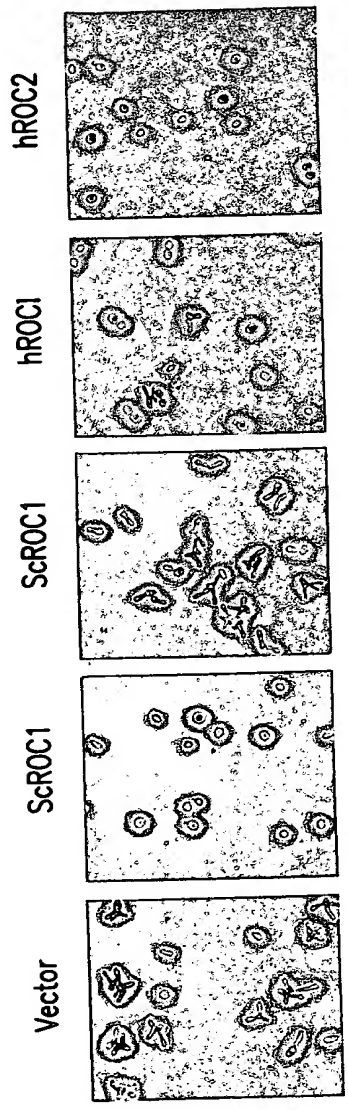


FIG.5E



FIG.5F



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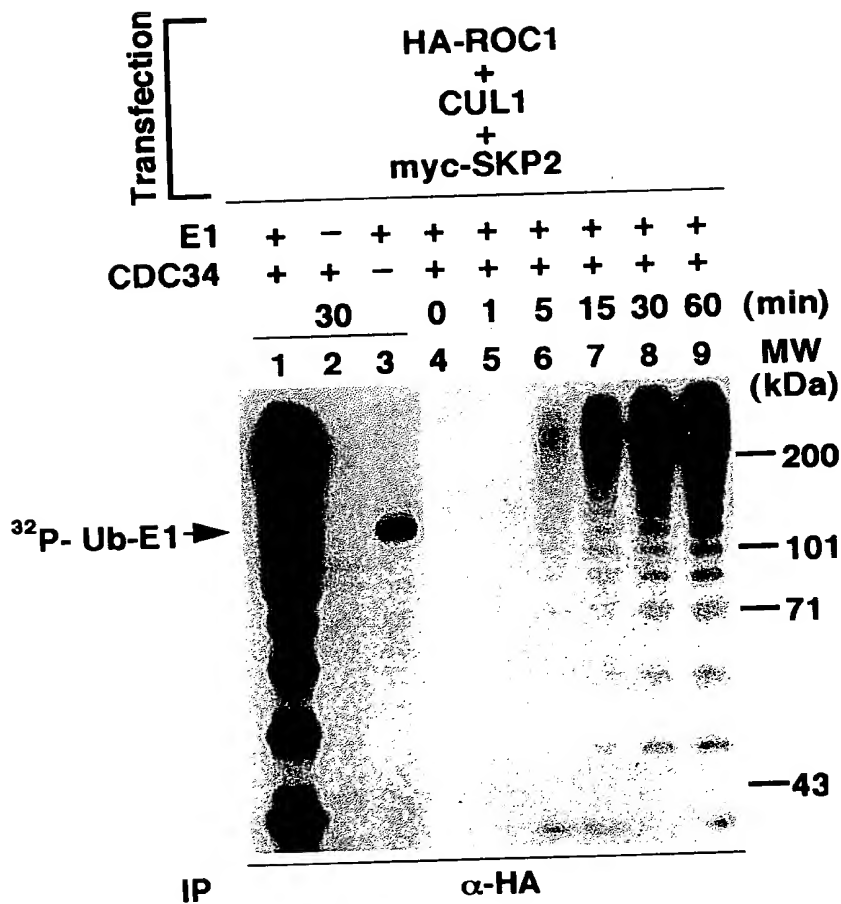


FIG.6A



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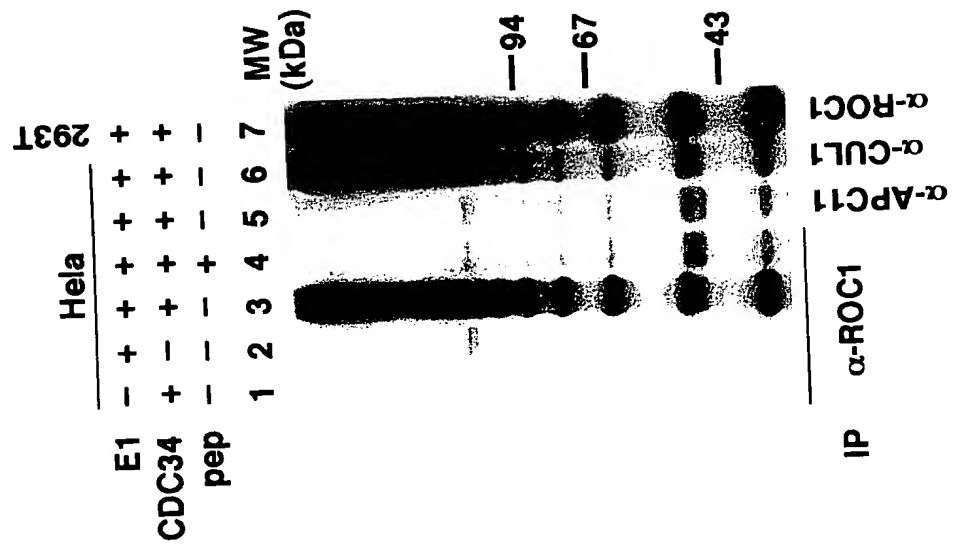


FIG.6C

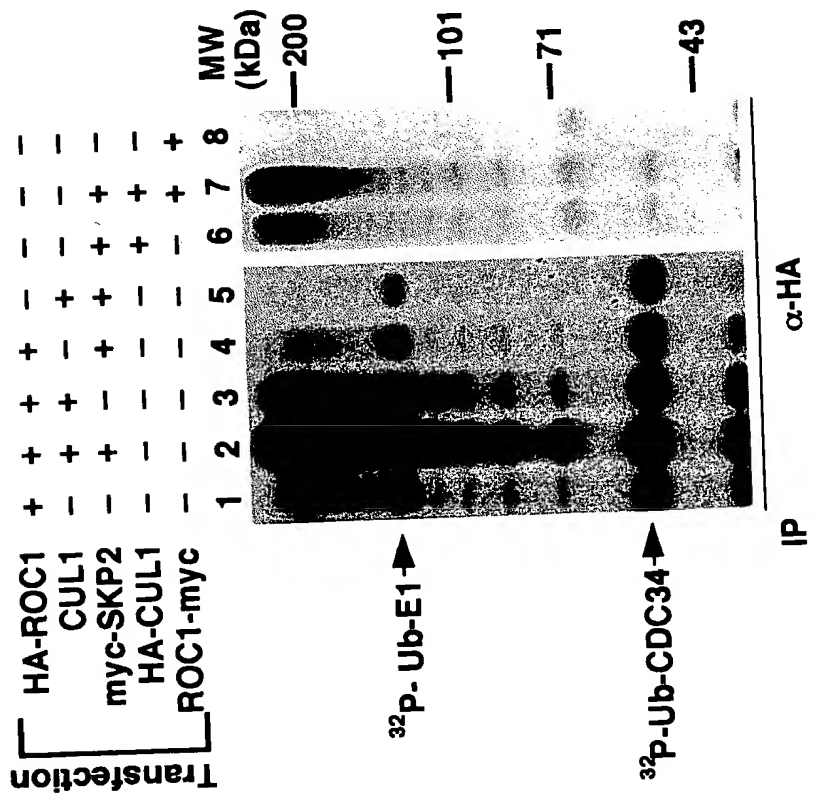


FIG.6B